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ABSTRACT OF THE DISCLOSURE

The instant invention relates to an earth retaining wall system, definable with reference to an x,y,z Cartesian coordinate system, for stabilizing an earthen wall, the system comprising a y-axis footing having an x-axis width, the footing embedded within the earth along a y-z plane at a base of an earthen mass to be retained by the system, the footing having a flat xy upper surface thereof; and upon the upper surface of the footing, a retaining wall comprising a multiplicity of courses of constructional blocks, each block thereof defining a generally solid rectangular exterior configuration, an x-axis thereof defining a width axis of the wall, a y-axis thereof defining a segment of a length of the wall, and a z-axis thereof defining a segment of a height of the wall, in which one xz end surface of each block comprises a positive y-axis deep key geometry and each opposing xz end surface thereof comprises a negative y-axis deep key geometry complementally interlockable to a part of a substantially planar xy geo-grid positioned within at least one xy plane between the retaining wall and the earthen mass to be retained, a y-axis edge of the geo-grid rigidly secured between opposing surfaces of y-axis courses of blocks of the retaining wall, in which elements of the grid near to the y-axis edge thereof define x and y axes separations proportioned for complementary interposition between successive z-axis recesses and interlocking blocks of opposing z-axis courses, whereby securing the y-axis edge of the geo-grid is secured between adjacent z-axis courses of blocks of the retaining wall.